Place Value and Operations in Base Ten

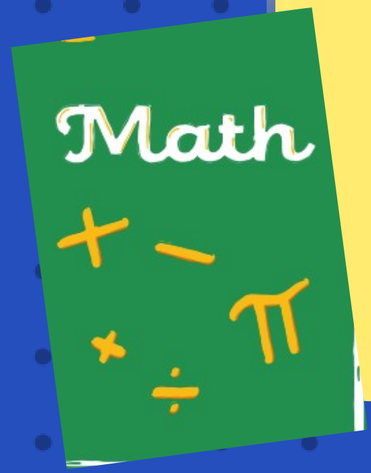
Lesson For Elementary

Today you'll learn to:

Multiply numbers by 10's

Divide numbers by 10's

Solve word problems involving multiplication and division by 10's



DID YOU KNOW?

The development of the base-ten system is believed to originate from the convenience of using ten fingers in counting.

LET’S RECALL!

How big is 1 thousand compared to 1 hundred?

Thousands	Hundreds	Tens	Units (Ones)
1	1	1	1

How big is 1 unit compared to 1 ten?

MULTIPLICATION BY 10'S

When a number is multiplied by 10, it becomes 10 times larger.

Example:

$$3 \times 10 = 30$$

MULTIPLICATION BY 10'S

Example: 25 x 10

Step 1: Move each digit to the next higher place value.

Hundreds	Tens	Units (Ones)
2 ←	5 ←	

Step 2: Put 0 in the ones place as a placeholder.

Hundreds	Tens	Units (Ones)
2	5	0

25 × 10 = 250

DIVISION BY BY 10'S

When a number is divided by 10, it becomes 10 times smaller.

Example:

300 ÷ 10 = 30

DIVISION BY 10'S

Example: 400 ÷ 10

Step 1: Remove 0 in the ones place.

Hundreds	Tens	Units (Ones)
4	0	~~0~~

Step 2: Put 0 in the ones place as a placeholder.

Hundreds	Tens	Units (Ones)
	4	0

400 ÷ 10 = 40

LET'S SOLVE!

Put on your thinking hats and solve these word problems!

1

There are 6 boxes. Each box has 10 colored pens. How many colored pens are there in all?

2

There are a total of 240 stickers. If each sticker is packed in sets of 10, how many packs will there be?

LET'S SOLVE!

ANSWER KEY

1 6×10

Hundreds	Tens	Units (Ones)
	6	0

$6 \times 10 = 60$

There are 60 color pens in all.

2 $240 \div 10$

Hundreds	Tens	Units (Ones)
	4	0

$240 \div 10 = 24$

There are 24 packs of stickers.

REMEMB

Multiplying by 10

When a number is divided by 10, it becomes 10 times smaller.

Example: 25 × 10 = 250

Dividing by 10

When a number is multiplied by 10, it becomes 10 times larger.

Example: 250 ÷ 10 = 25

REFERENCE

h

ttps://mathspace.co/textbooks/syllabuses/Syllabus-1090/topics/Topic-21195/subtopics/Subtopic-274584.

GREAT
JOB!

RESOURCE PAGE

Use these design resources in your Canva Presentation.

Fonts

This presentation template uses the following free fonts:

TITLES:
BOBBY JONES

BODY COPY:
SIGHER

You can find these fonts online too.

Colors

#264FBD #FFEB70 #E95D44

Design Elements

DON'T FORGET TO DELETE THIS PAGE BEFORE PRESENTING.

CREDITS

This presentation template is free for everyone to use thanks to the following:

Slides Carnival

for the presentation template

Pexels, Pixabay

for the photos

Happy designing!